



DESCRIPTIVE ABSTRACT

HIGH-PERFORMANCE PARALLEL AND SELECTIVE DISPENSING SYSTEM OF MICRO-DROPLETS, TRANSPORTABLE CARTRIDGE AS WELL AS INSTALLATION DISPENSING KIT, AND APPLICATIONS OF SUCH A SYSTEM

This invention aims at allowing a consistent increase in the output of selective dispensing of micro-droplets, at making a spatial, targeted selectivity by distributing a predetermined reagent on the predetermined site, and at creating a multifunctional system, easy to adjust.

An example of dispensing system according to this invention consists of a substrate (2) covered by a membrane (3) and of means for deforming (65) the membrane at the right of each cavity formed in the substrate, and where the cavities, etched in a material constituting the substrate (2) in a matrix shape, appear in the shape of wells (10) crossing the substrate with lateral, continuous walls (11) of axial symmetry; each well opening on the upper surface and the lower surface of the substrate with respectively a feeding opening (12) and an ejection duct (14), the feeding opening showing an opening consistently higher than the opening (13) of the duct.

Application to the manufacturing of cartridges and of miniaturised kits in biochemistry and pharmacy, or also in cosmetics, in analytical instrumentation, in printing by inkjet or in the automobile electronics.

FIGURE 13a.

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